

**Abstract**

The invention relates to a sol-gel coating material, containing (A) an  
5 acrylate copolymer solution, consisting of at least one acrylate copolymer  
(A1), (B) a sol which can be produced by the hydrolysis, condensation and  
complexing of at least one hydrolysable metal compound (B1) of the  
dormula (1):  $MR_n$ ; wherein the variable and the index have the following  
meanings: M = aluminium, titanium or zirconium; R = hydrolysable group,  
10 hydroxy groups and non-hydrolysable groups, with the proviso that there  
should be at least one, preferable two hydrolysable groups; and  $n = 3$  or  $4$ ;  
by the hydrolysis, condensation and complexing of at least one  
hydrolysable silane (B2) of the formula (II):  $Si(R^1)_2(R^2)_2$ ; wherein the variable  
 $R^1$  and  $R^2$  have the following meanings:  $R^1$  = alkyl and/or cycloalkyl  
15 radicals and  $R^2$  = alkoxy and/or cycloalkoxy radicals; and by the hydrolysis,  
condensation and complexing of at least one hydrolysable silane (B3) of  
the formula (III):  $SiR_4$ ; wherein the variable R has the aforementioned given  
meaning: with the proviso that the silane (B3) is not a silane (B2) according  
to the general formula (II); and (C) between 0 and 40% by weight in  
20 relation to the total quantity of the coating material, of a parent lacquer  
which can be produced by the hydrolysis and condensation of least one  
hydrolysable silane (B3) of general formula (III).

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